

Abstract of the Disclosure

An optical testing apparatus for measuring the transmission characteristics of a DWDM filter. A first opto-mechanical lens assembly comprises a light emitter and a first optical axis which is angularly adjustable via a spherically shaped bearing surface pivoting about a specified first fixed point. A second opto-mechanical lens assembly comprises a light collector and a second optical axis which is also angularly adjustable via a spherically shaped bearing surface pivoting about a specified second fixed point whereby the second optical axis is positioned coaxially with respect to the first optical axis. The first optical axis and the second optical axis are coaxially aligned passing through a center of the DWDM filter positioned on a platen. A computer controlled measurement system for automatic testing of each of a plurality of DWDM filters comprises a tuneable laser system, a system control computer, a display, a light detector, a computer controlled xyz table and a measurement apparatus which includes an optical assembly having an optical axis which is angularly adjustable via a spherically shaped bearing surface pivoting about a fixed point.